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(71)Applicant : NISSAN MOTOR CO LTD

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(72)Inventor : MORI KIYOKAZU

TAKEMURA SHINSUKE

TARUI HIROSHI

(30)Priority

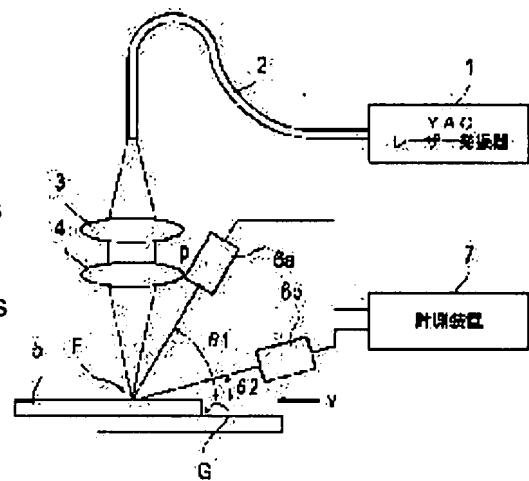
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## (54) DEVICE AND METHOD FOR MONITORING QUALITY OF LASER BEAM WELDED PART

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To surely detect the generation of porosity in a laser welded part.

**SOLUTION:** The reflected beam of a laser beam applied to the welding part F of a work 5 is detected by a sensor 6a and converted to electric signals. At a measuring device 7, the frequency distribution of the electric signals is calculated and the signal strength in the specified frequency band of the calculated frequency distribution is calculated. When the calculated strength excesses a preset reference value, the generation of porosity is judged to be excessive, and when not excess, judged to be within a normal range.



### LEGAL STATUS

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